



ROOF TRUSS PLAN

SCALE 1:100

- H.1. Windows:**
All standard side hung or cottage pane steel frame windows as per 'Wispeco' catalogue or similar with brass handles, peg stays and sliding stays.
Frame finish 1 coat zinc chromium primer and 2 coats Plascon gloss enamel or SANS approved as per paint specifications.
Standard steel / aluminium clips on window fly screen with aluminium mosquito gauze to all operable sections.
All windows must be provided with burglar bars.
- H.2. Glazing:**
All as per SABS specifications and new safety requirements. Glass thickness, safety glazing and markings to SABS 0400 part N and SABS 0137.
General 3mm clear float glazing to steel frame with putty.
Specific 3mm obscure glazing in bathroom and w.c.
Safety glazing with a nominal thickness of 6mm should be installed to openings with a surface area greater than 0,8 square meter.
- H.3. Door Frames:**
Standard 1,2mm pressed steel door frames. Double rebated frame with 100mm hinges. Frame painted with 1 coat zinc chromium primer, 2 layers under coat and 2 coat enamel paint as per specifications.
- H.4. Doors:**
External:
Framed, ledged, braced and battened meranti doors - 813 x 2032 x 44mm thick.
External faade - 75 x 22mm v-jointed tongued and grooved battens.
Finish - 2 coats polyurethane varnish and sanded down between coats.
Ironmongery - 'Union' Springbok 390/311 2-lever or similar approved.
- H.5. Fly screen Doors:**
Ironmongery - Black Japan pull handles (no. 2). Brass bark bolts inside (Solid art 203) and 100mm brass butt hinges.
Overhead closer - Dorma NHN81 series.
- Miscellaneous Items:**
J.1. Ceilings:
All gypsum ceilings with H-strips.
J.2. Airbricks:
Approved airbricks above windows and doors to laundries and bathrooms.
J.3. Doorstops:
Red rubber 38mm or other specific.
- GENERAL DESCRIPTIONS**
- A.1. TRADE NAMES**
All products specified by trade name is subject to the additions of "... or similar approved product" with approval by architect. Colour of finishes to architects.
- A.2. INSECTICIDE**
Treat soil under foundations and surfaces beds with "Chlordane" (SABS 1165) soil insecticide according to SABS 0124. Contractor to furnish guarantee.
- A.3. FILLING**
Filling under surface beds to be approved insert material compacted in layers of maximum 150 mm to a minimum of 93 % MOD AASHTO
- A.4. DAMP PROOF COURSE**
Damp Proof Course - 0,375 mm Polyolefin dpc (SABS 952 type B) in un-jointed lengths where possible over full width of wall as shown on detail sections.
- A.5. EXPANSION JOINTS**
Provide expansion joints as indicated per floor plans and to receive "Spansel" 50 and "Polyspan" expansion joint covers with Code: EJC 65.
- B. CONCRETE, FORMWORK AND REINFORCEMENT:**
B.1. Foundations:
15 MPa / 19mm stone - 600 x 230mm deep concrete strip foundations, minimum 500mm below natural ground level. Foundations as per engineer's specifications where required as per general specifications.
Foundations 230 mm thick 15 Mpa (1:3:6 mix) concrete strip foundations, in widths shown on foundation plan. Depth to suit soil conditions and to the approval of architect and local authority.
B.2. Surface Bed:
Cement to be SABS ENV 197-1, minimum grade 42,2.
100mm thick unreinforced surface bed on GUNDDLE gunplas usb d.p.m. (0,25 micron) on well compacted hardcore treated with Coopex T.C. or SANS approved soil poisoning (5 year guarantee)
B.2. Lintels:
Precast concrete lintels above openings, where door frames and window frames are specified. Precast lintels to be built in 225mm past openings into brickwork. Lintels to comply with SABS 1504 - 1990.
- C. BRICKWORK:**
C.1. Common Bricks:
Ideal - 150mm wide cement building blocks with cavity, 7,5 MPa Clay bricks - according to SABS - bricks to be of uniform size and shape, 230 x 115 x 75mm, class NFP, not less than 7,5 MPa strength. All brickwork in stretcher bond course with 10mm mortar joint, weather recessed to a depth of 6mm 'brick force' reinforce. OR
Cement bricks - 230 x 115 x 75mm solid cement bricks. Bricks to comply with SABS 1215-1984. Blocks to have minimum tolerance of 2mm out-of-squareness in all directions. minimum strength of 7,5 MPa and a maximum drying shrinkage of 0,06%.
Note - certification of compliance from the supplier to these requirements to be furnished on request. Cement bricks - 7,5 MPa as per SANS codes or 150mm blocks
- C.2. Foundation Walls**
Common bricks as specified above. Mortar between brickwork to be 1:4 cement, sand mixture. The height of any foundation wall - not acting as a retaining wall shall not exceed 1,5m. Minimum thickness of foundation walls to comply with Table 4 - part KK, NBR. Ideal - 150mm wide cement building blocks with cavity
- C.3. Mortar:**
Refer to SABS ENV 197-1, common cements, and cement to be MCIL SABS 1090-1976. Sand for plaster and mortar. Class 1 for work below ground - 10Mpa - 1:4 mixture (one cement to three volumes building sand). Class 2 for work above ground - 15Mpa - 1:6 mixture.
- D. PLASTERING:**
D.1. Internal and External Walls:
Minimum 12 - 15mm thick, 1 cement: 5 sand mixture.
- A. WATERPROOFING:**
A.1. Damp-Proof Courses:
Under floor membrane to be 'GUNDLE' gunplas usb d.p.m. - turned up around perimeter of and at least for the full thickness of the slab. Any joint in such membrane shall overlap by not less than 150mm and shall be effectively sealed with sealing strips. (as 375 micron d.p.m. (brick grip) underneath all walls and underneath all window cills, all to SABS 952, type C.
Any wall of a building shall be provided with a damp-proof course in such position and to an extent that will protect the wall against rising damp and the interior of the building against ingress of moisture from abutting ground. No horizontal damp-proof
- B. ROOF CONSTRUCTION:**
B.1. Roof Anchorage:
Typical construction application a galvanized steel strap or wires shall be embedded in the wall at positions suitable for anchoring any timber roof truss, rafter or beam to such wall. Such strap or wire shall extend into the wall to a depth of at least 4 brick courses.
Any roof truss, rafter or beam shall be fixed to any wall by using one of the following types of anchors:
Type A: two strands of 4mm galvanized steel wire;
Type B: 30mm x 1,2mm galvanized steel strap.
Refer to part KK13 NBR (SABS 0400-1987) for further details.
- F.2. Corrugated Steel Roof Sheetting:**
Chromadek "Sand Stone Beige" 0,6mm roof sheeting on approved sisalation as specified on 75 x 50mm S.A. pine battens / purlins at maximum 1200mm centers on prefabricated 115 x 38mm S.A. pine timber trusses at 900mm centers. Fibre - cement barge boards and fascias - standard specification.
- Floor Finish:**
G.1.
25mm tinted granolithic screed.



ACCESSIBLE ROUTES AND ACCESSIBLE MEANS OF EGRESS
ACCESSIBLE ROUTE:
An accessible route shall consist of one or more of the following walking surface with a slope not steeper than 1:20, no stepped changes in level greater than 15mm, which runs continuously through doorway up ramps, elevation, platform (wheelchair) lift, from the point arrival to the component of the building or to be accessed

At least one accessible route shall be provided with the boundary of the site from public transportation stops, accessible parkings spaces, passengers loading zones and public street or pavements to the accessible building entrance they serve

at least one accessible route shall connect accessible building, facilities, elements and spaces that are on the same site

at least one accessible route shall connect each level in multi-storey building and facilities including mezzanines

where direct access to a building is provided for pedestrians from an enclosed parking garage, at least one direct entrance.

at least one accessible entrance to a building or tenancy in a facility, that entrance shall be accessible

accessible entrance shall be indetify by the international symbol of accessibility and directional sign indicating the location of the nearest accessible entrance shall be provided at inaccessible entrance

Floor or ground surface shall be comply with item 1.1, changes in level shall comply with item 1.2 the running slope of walking surface shall not be steeper than 1:20, and the cross-slope not steeper than 1:40.

the clear width of walking surface shall be a minimum of 900mm, if the clear width is less than 1500mm, an accessible route shall be provided with passing spaces at interval of 50 metres (maximum) and of plan size 1500mm long by 1200mm (minimum), or an intersection of two walking surface which provide a T-shape as described in item 1.3

REV	BY	DATE	REVISIONS DESCRIPTION FOR TENDER PURPOSES

CLIENT:



CITY OF MBOMBELA
THE ULTIMATE DESTINATION

PROJECT:

NEW CONSTRUCTION OF CHWENI COMMUNITY HALL

TITLE:

ROOF TRUSSES LAYOUT

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Lihuzu
PROJECTS

SCALE	AS SHOWN	DRAWING NUMBER	SHEET	
DATE	OCTOBER 2019			030_CHW_W006
DESIGNED:	T.M	PROJECT NUMBER		
DRAWN:	T.M		030_CHW	
CHECKED:	L.S.M & T.N			
SIGN:	DATE:			